

A jab to keep the doc away

Michael Davies-Venn

A four-day campus influenza vaccination blitz will be held at the University of Alberta campus starting Nov. 6. The effort is expected to help reduce the number of students who say their work was affected by the flu season, says Kevin Friese, assistant director of University Wellness Services.

"Twenty per cent of respondents to the National College Health Assessment survey that we ran last year indicated that their academics within the previous 12 months were impacted by flu," Friese said. "In doing this, we're assisting students so they can focus on their academics and living healthy lives. For staff, it's an opportunity to stay safe and healthy, so they don't have to take time off work."

More than 5,000 students, staff and faculty received the flu shots during last year's campaign. For some of the pharmacy and nursing students, the benefits go beyond being vaccinated. "Rather than just leaving the clinics to registered nurses, physicians and pharmacists, we undertake a learning opportunity in which students are supervised in an interdisciplinary setting."

Thousands are expected to line up for their shot, but Friese notes that they won't be expected to wait long. "In general—we know this from last year—on each day of the main campus campaign, average off-peak wait times were zero, people were getting in right away. During peak times it was about 12 minutes. We want to encourage people to come early," he said.

Staff and students are advised to bring their ONEcard or an equivalent form of identification. The main campus clinic is open from 9 a.m. to 3 p.m. on the main floor of the Students' Union Building. Three other clinic locations include the Blue Room at Enterprise Square, in the Grand Salon of Pavillon Lacerte at Campus Saint-Jean, and on the main floor of the Forum Building at Augustana Campus.

It will just sting for a second



Melissa Williams (left) receives a flu shot from Beth Woytas at the University Health Centre on Oct. 12. A four-day university flu vaccination blitz begins Nov. 6.

Honorary degrees recognize inspirational leaders

Sean Townsend

Four outstanding leaders will receive the University of Alberta's highest honour during fall convocation ceremonies in November.

"Leadership takes many forms, whether through contributions to education and public policy, supports for children and families, social change that protects our rights and freedoms, or revolutionary ideas that transform our understanding of peace, democracy and citizenship," said U of A chancellor Ralph Young. "Each of our honorary degree recipients for fall convocation 2012 is an inspiring example of leadership, and I look forward to hearing them address our graduates."



Leymah Gbowee

The four honorary degree recipients will deliver addresses during convocation ceremonies in Edmonton Nov. 20 and 21.

Leymah Gbowee is executive director of the Women Peace and Security Network Africa, and a founding member and former co-ordinator of the Women in Peacebuilding Program/West Africa Network for Peacebuilding. Her leadership and advocacy for girls' and women's rights united women across regional and religious divisions in Liberia and West Africa. Their non-violent movement for peace and democracy helped to end 14 years of civil war in Liberia and brought about the removal of president Charles Taylor in 2003. In 2011, Gbowee shared the Nobel Peace Prize with Liberian president Ellen Johnson-Sirleaf and Yemeni political activist Tawakkol Karman. Gbowee will receive an honorary doctor of laws degree Nov. 20 at 3 p.m.

Tawakkol Karman is a Yemeni political activist and journalist who became known as the "mother of the revolution" that saw the removal of her country's president, Ali Abdullah Saleh, in late 2011. Though she came to international prominence during the "Arab Spring" protests that began in 2010, Karman had already been a leading advocate for human rights and a member of Yemen's main opposition party, Al-Islah,



Tawakkol Karman

for many years. In 2005, she co-founded Women Journalists Without Chains, an organization dedicated to promoting human rights and freedom of the press in Yemen.

In 2011, she shared the Nobel Peace Prize with Ellen Johnson-Sirleaf and Leymah Gbowee of Liberia, becoming the first Arab woman and the youngest person to receive the honour. Karman will receive an honorary doctor of laws degree Nov. 20 at 3 p.m.

Brian Heidecker has been a passionate advocate for higher education and the U of A for nearly 30 years. A successful rancher from 1966 until retiring in 2006, Heidecker began his service to the U of A in 1984 when he became a special advisor to what was then the Faculty of Agriculture and Forestry. He was

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New CRC harnessing viruses to help fight cancer

Michael Brown

According to Maya Shmulevitz, the old saying, "Beauty is in the eye of the beholder," is never more apt than when a researcher is looking through the microscope at the often misunderstood and universally feared world of viruses.

"The beautiful thing about viruses is how tailored they are," said Shmulevitz, professor in the Department of Medical Microbiology and Immunology and freshly minted Canada Research Chair in Molecular Virology and Oncotherapy. "Depending on where they want to go and what they want to do, it's almost like they evolve to be perfect for the task."

Shmulevitz, an alumna of the University of Alberta, thinks that ability to navigate the human body and evolve to perform specific duties makes viruses perfect for the fight against cancer.

"Everybody always thinks of viruses as bad and having disease-causing characteristics, but there is a group of viruses called oncolytic viruses, which have been shown to selectively replicate in, and kill, cancer cells. These viruses can't replicate or kill a normal cell, but give them a cancer cell and they grow really well."

Shmulevitz and her team have been able to show that one particular virus, known as the reovirus, is quite effective in battling certain cancers in lab models and, to a lesser extent, in humans. The researchers are now working on retooling the virus to make it work even better.

"In our clinical trials, the process showed some anti-tumour activity but it was incomplete and needs to be improved," she said.

"We're working on fine-tuning the virus to overcome some of the challenges, and looking at ways to change the cancer cells, like adding the virus and adding a drug at the same time, to make the viruses kill the cancer cells even better."

With the addition of Shmulevitz, as well as five renewals and one advancement, the U of A now has 88 Canada Research Chairs with a total value this year of \$13.2 million.

"The Canada Research Chairs program remains a key part of our country's drive to be a global knowledge generator, strengthening Canada's abilities in innovation and economic leadership," said Lorne Babiuk, vice-president (research). "We are once again delighted with the quality of the individuals selected for CRC renewals, advancement and new awards, and the University of Alberta offers its congratulations to these outstanding researchers."

Shmulevitz was named a Tier 2 CRC researcher—a title that comes with a \$500,000 award paid out over five years, given to emerging researchers who are acknowledged by their peers as having the potential to lead in their field.

Shmulevitz says the university community's support for research is one of the factors behind her success, as is the cutting-edge infrastructure



Maya Shmulevitz, the U of A's newest Canada Research Chair, finds beauty in the misunderstood world of viruses.

and resources, which she says are "signs of a thriving university."

But what impresses her most about the U of A is the people.

"Basically, the calibre of my colleagues and the opportunities for collaboration ... there are just so many interesting projects that interrelate that you can find ways to connect on," said Shmulevitz. "I also thank the world each and every day for the students I have. They are very keen and enthusiastic for these projects."

Thomas Stachel, a professor in the Department of Earth and Atmospheric Sciences, was advanced from Tier 2 to Tier 1, jumping his funding to \$1.4 million paid out over seven years. This award is given to researchers acknowledged by their peers as world leaders in their fields.

Stachel, Canada Research Chair in Diamonds, came to Canada from the University of Frankfurt five years ago to better understand the origin and occurrence of diamonds in hopes of improving the mining operations of Canadian diamond mines.

In 2000, the Government of Canada created a permanent program to establish 2,000 research professorships—Canada Research Chairs—in eligible degree-granting institutions across the country. The program invests \$300 million per year to attract and retain some of the world's most accomplished and promising minds. ■

CRC Renewals

Tier 1 renewals include famed paleontologist Philip Currie, CRC in Dinosaur Paleobiology; Liang Li, CRC in Analytical Chemistry, who explores the role of proteomics and metabolites in biosciences; and Christopher Power, CRC in Neurologic Infection and Immunity, who uses neuroimaging, molecular biology and nanotechnologies to study infectious and immune diseases of the brain.

Renewed as Tier 2 CRC are Nadir Erbilgin, CRC in Forest Entomology, who came from the University of California, Berkeley to help develop pest-management strategies for use against the mountain pine beetle; and Brenda Parlee, CRC in Social Responses to Ecological Change, who investigates community responses to the effects of resource development on the land, water and wildlife in the Northwest Territories.

Looking back on a department that was ahead of its time

Michael Davies-Venn

One of the brains behind the Department of East Asian Studies says it took a bit of serendipity and support from the late former premier Peter Lougheed's government for the university to establish the program, which continues to contribute in politics and culture three decades later.

"The Lougheed government provided the initial extra funding that was needed to get the department going, enlarging the university budget," said professor emeritus Brian L. Evans. "And then they had a very generous program to provide for scholarly and cultural exchanges. All of these things were done to make people more aware. And through that money we were able to send students abroad. These were opportunities that other institutions in Canada could count upon on a regular basis at that time, from a provincial government."

In recognition of the program's 30th anniversary this year, the department, the U of A Press and the China Institute recently launched Evans' book, *Pursuing China: Memoir of a Beaver Liaison Officer*.

"By the time the program had been proposed, we had a very good academic vice-president, Myer Horowitz, who became president," Evans recalled.

"He wanted to internationalize the institution—that was an



Professor emeritus Brian Evans (pictured during his appointment to the Order of Canada by governor general Adrienne Clarkson in 2000) was instrumental in establishing the U of A's Department of East Asian Studies.

opportunity that came as a result of our efforts and the good atmosphere that had been developed in Edmonton and Ottawa."

That atmosphere was a change in Canadian foreign policy toward China, which Evans says started with former prime minister Pierre Trudeau. "When Trudeau became prime minister in 1968, he made it a cornerstone of his foreign policy that Canada should be looking west across the Pacific to Asia," he says. "Canada at that time did not recognize the People's Republic of China, but clung to this fiction that Taiwan represented China. And Trudeau said, 'No, this is nonsense,

we've got to recognize the PRC.' And this was popular right here in Western Canada because in the early '60s, Canada had a major wheat market in China."

With an economic downturn in Alberta, Evans says, Lougheed turned attention to Asia when he became premier in 1971. "Alberta was hit very hard by that, so they were looking for another means of exporting Alberta products. Lougheed looked at Japan and Korea and China, and he opened up in those areas. This was an opportunity for Alberta's expertise in agriculture, petroleum and forestry to be developed. If it were not for

that time, we wouldn't have had the department when we had it."

Along with that opportunity, the program was a result of a realization by Evans and colleagues such as professor Hazel Jones that establishing such a program was consistent with Horowitz's international agenda.

"We all felt that Asia was an important part of the world, particularly important to Canadians, and that we couldn't be really regarded as a major university if we didn't have that aspect within the arts faculty, particularly," Evans said.

Since then, the university has continued to have a positive impact on provincial and federal government relationships with Asia. "We've raised the level of expertise certainly within the governments, federally and provincially," Evans said.

Ryan Dunch, chair of East Asian studies, says the program is an important growth area for the university and for the province. With year-on-year enrolment growth of about 12 per cent, the program has Dunch looking forward to its next three decades.

"I'd like to see a PhD program, more post-graduate certificate programs and things that are responsive to changing job markets and needs," he said. "Thirty years from now we need to see a program that's twice the size of the current department." ■

Chemist wins awards for dedicating lab and classroom to a forgotten disease

Geoff McMaster

Half a century ago, it seemed tuberculosis might finally be eradicated. A new vaccine and improvements in public health resulted in a 90 per cent decrease in mortality rate by the 1950s, at least in the Western world. But by 1993, the re-emergence of drug-resistant strains of the disease caused the World Health Organization to declare a global emergency.

It's estimated that one-third of the world's population has been infected with TB, mostly in Asia and the former Soviet Union, and it still kills a million people every year.

In recent years, however, scientists have been hard at work decoding TB's defences. Chief among them is the U of A's own Todd Lowary, a carbohydrate chemist who first got interested in the TB bacterium because of the "weird and unusual" structure of its cell wall, which consists of very dense, impenetrable carbohydrates.

"It's complex and unlike anything else that's been identified in nature," says the recipient of two U of A awards this year recognizing

his exemplary accomplishments in research and teaching—the Killam Annual Professorship and the Rutherford Teaching Award.

In one sense, Lowary's success is no surprise. He is one more in a long tradition of carbohydrate-chemistry stars at the U of A that began with the world-famous Ray Lemieux. In the words of one Oxford professor, Lowary's "incisive use of outstanding organic chemical methodology to strike at the heart of the biology of TB is near unique and has enormous potential to answer hugely important questions."

In theory, says Lowary, the more we know about the cell wall's structure, the closer we are to developing drugs that can break it down. That crucial knowledge has only emerged in the last two decades, and the journey from basic research to effective treatment is always a long one.

But he says he has made huge strides. "We've come a long way with this work, but what we do is very fundamental."

Lowary's team is also trying to come up with better diagnostic tools for TB, and toward that end received funding earlier this year from the Bill



Todd Lowary is working on cracking the tough defences of the tuberculosis bacterium.

and Melinda Gates Foundation to examine blood samples of infected patients, screening for the antibodies that attack TB carbohydrates.

Collaborating with fellow chemist Jillian Buriak and pediatrics professor Lori West, Lowary is also helping to improve heart transplants in infants. West discovered that it's possible to successfully perform heart transplants that cross the blood group

barrier in newborn babies—making it possible, for example, to take an A-type heart and put it in a B-type child. The window for the transplant, when the baby's immune system is not yet fully developed, is about six months. But Lowary and Buriak are working on nano-materials with the right blood-group antigens that could keep a child alive until a transplant donor is identified.

Killam

On his Rutherford Teaching Award, Lowary waxes modest. "I don't have any great secrets or sage advice," he claims. "I'm not particularly eloquent or articulate, and I have a pretty traditional approach to teaching. But I do ask a lot of questions to draw students out and personalize the experience for them. As much as possible, I try to bring in real-world relevance to my undergraduate lectures."

Says one colleague of Lowary's student evaluations, "Every one of the students commented on the startling fact that Professor Lowary knew every student's name by the time of the first midterm, even in classes of over 100 ... [which] speaks volumes about his commitment to undergraduate teaching." ■

Meteorite delivers Martian secrets

Brian Murphy

A meteorite that landed in the Moroccan desert 14 months ago is providing more information about Mars, the planet where it originated. Chris Herd, researcher in the Department of Earth and Atmospheric Sciences, helped in the study of the Tissint meteorite, in which traces of Mars' unique atmosphere are trapped.

"Our team matched traces of gases found inside the Tissint meteorite with samples of Mars' atmosphere collected in 1976 by Viking, NASA's Mars lander mission," said Herd.

Herd explained that the meteorite started out 600 million years ago as a fairly typical volcanic rock on the surface of Mars, until it was launched off the planet by the impact of an asteroid.

"At the instant of that impact with Mars, a shock wave shot through the rock," said Herd. "Cracks and fissures within the rock were sealed instantly by the heat, trapping components of Mars' atmosphere inside, and forming black, glassy spots."

The team estimates that for a period of between 700,000 and one million years, the rock floated through outer space, until July 2011 when it streaked through Earth's atmosphere to land in Morocco.

This is only the fifth time a Martian meteorite landing was witnessed. Herd says the key reason this meteorite is so important is that it was picked up just a few months after landing and was not subjected to weathering or contamination on this planet.

The rock's Martian weathering involved water, which means water was present on the surface of Mars within the past few hundred million years. But Herd says this meteorite sample does not carry any evidence that the water supported any life forms.

"Because the Martian rock was subjected to such intense heat, any water-borne microbial life forms that may have existed deep within cracks of the rock would have been destroyed," said Herd.

Curiosity, NASA's current Mars rover mission, is moving around the red planet searching for more information on the history of Mars.

The team's study makes a return mission to Mars that will bring rocks back to Earth all the more crucial, says Herd. "Martian rocks delivered to Earth by a spacecraft would provide the best opportunity to see if life was ever clinging to the surface of Mars."

Joining Herd from the U of A's Department of Earth and Atmospheric Sciences was geochemistry technician Guangcheng Chen. John Duke, director of the U of A's SLOWPOKE Nuclear Reactor Facility, was also a co-author of the research paper published online Oct. 11 in the journal *Science*. ■



Chris Herd shows off a piece of the Tissint meteorite that landed in Morocco this year.

Team aims to prevent premature births

Raquel Maurier

Two U of A medical researchers are part of an international team that received \$1 million in funding to develop a drug that could prevent preterm births—a bigger problem in Alberta than in any other province.

The research team is working on developing an inexpensive drug that could prevent preterm labour contractions from happening as well as the development of an early detection blood test that can pinpoint which women may be at risk for preterm birth.

"Right now we don't have good drugs on the market to prevent a woman from going into preterm labour," said David Olson, a researcher in the departments of obstetrics and gynecology, pediatrics, and physiology, and director of the international team.

"Except for one drug, all others currently on the market were originally developed for cardiovascular disease and not to prevent preterm birth. These drugs work on trying to stop the uterus from contracting," Olson said. "What we want to do is to block those processes that turn on or activate the uterine contractions, so the pregnancy can continue."

Bryan Mitchell, researcher in the departments of obstetrics and gynecology and physiology, is also part of the research team, along with researchers from the

universities of Montreal, Lethbridge, Adelaide and the Second Military Medical University in Shanghai.

The group received funding from the Preventing Preterm Birth Initiative, a Grand Challenge in Global Health administered by the Global Alliance to Prevent Prematurity and Stillbirth, an initiative of Seattle Children's Hospital.

The medication being developed would be very inexpensive to produce—just \$1 or \$2 per day per patient. Considering preterm birth is a worldwide problem and occurs at high rates in developing countries, the drug should be affordable everywhere.

Worldwide, there are 135 million births a year, of which slightly more than 10 per cent are preterm. Of those 15 million preterm births a year, about one million babies will die.

Alberta has the highest rate of premature birth in Canada, at 8.7 per cent—higher than the national average of 7.7 per cent, notes Olson. The costs associated with preterm births in Canada are tens of billions of dollars a year. The preterm birth rate in the United States is much higher, at 12 per cent.

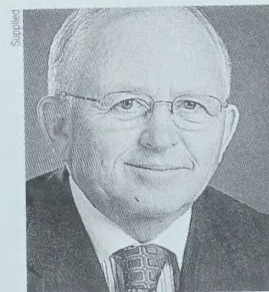
"Our goal is modest, I think," says Olson. "If we could change the preterm birth rate by just one per cent in North America, there would be healthier babies and happier families, and billions of dollars would be saved each year." ■

Honorary degrees: 'Leadership takes many forms'

Continued from page 1

appointed to the university's board of governors in 2000, and served as board chair from 2006 to 2011. His tireless work to advance the university's mission and vision was recognized in 2008 when the U of A received the Spencer Stuart Conference Board of Canada Public Sector Governance Award. He has served on numerous boards, including ATB Financial and the Bank of Canada, and has been influential in agricultural development and policy. He received the Alberta Centenary Award in 2005 and the Queen Elizabeth II Diamond Jubilee Medal in 2012. Heidecker will receive an honorary doctor of laws degree Nov. 21 at 3 p.m.

Marguerite Trussler was a Justice of the Court of Queen's Bench of Alberta from 1986 to 2007 and was president of the Canadian chapter of the International Association of Women Judges from 1998 to 2000. A pioneer in family law in Canada, the U of A alumna led numerous programs that have improved the lives of children whose parents are divorcing. She was instrumental in implementing Parenting After Separation, a mandatory educational seminar for divorcing parents that was the first of its kind in Canada. An active community supporter, she founded the Victoria School Foundation for the Arts, which provides annual scholarships and master classes for students. She received the Queen Elizabeth II Golden Jubilee Medal in 2002, the Alberta Centenary Medal in 2005 and the U of A's Distinguished Alumni Award in 2011. Trussler will receive an honorary doctor of laws degree Nov. 21 at 10 a.m. ■



Brian Heidecker



Marguerite Trussler

Grant helps archeologist solve migration mystery

Michael Brown

More than 90 U of A research projects worth almost \$5 million were named as the federal government's Social Sciences and Humanities Research Council of Canada released the results of the 2012–13 research grants and scholarship programs.

Of the awards, 15 research grants went to U of A-involved projects as part of the Insight Grants program, which enables the highest levels of research excellence in Canada by building knowledge and understanding, and by facilitating knowledge sharing and collaboration across research disciplines,

universities and all sectors of society. Another 10 projects were awarded Insight Development Grants, which are designed to support research in the initial stages.

John Ives, professor in the Department of Anthropology, received a \$184,285 SSHRC grant to investigate the archeological record of the 13th-century departure of the Apachean people from the Canadian Subarctic to the Promontory Caves in Utah—one of the largest human migrations in history.

Ives says transit of Apachean ancestors can provide vital analogies for problems of paramount importance today.

"Apachean ancestors left a comparatively water-rich world for

arid Great Basin, Southwestern and Southern Plains homes, often filling [dwellings] left behind by horticulturalists who could no longer sustain those lifeways," said Ives, of the mainly bison-hunting people's relocation to an area in the midst of a drought severe enough to chase off the area's former occupants. "Here, archeological research can offer relevant comparisons and contrasts for critical cultural and environmental factors today."

Ives says the funding will help colleagues continue research on Dene prehistory and create opportunities for graduate research, which includes access to a site with unparalleled preservation.

"This allows not merely for acutely framed research questions with extraordinary temporal control, but will also impact long-term student attitudes about the archeological record," said Ives. "In this way, the Promontory materials inevitably teach researchers humility—even good archeological records elsewhere pale in comparison."

Ives says this research will also help the Dene people tell their full story.

"Our knowledge mobilization plan can bring that journey to wider audiences, in ways that will foster greater understanding of the complexity of the First Nations heritage among mainstream Canadians," he said.

Grad students took home the bulk of the U of A's 2012–2013 SSHRC awards, which included

U of A Insight Grant winners

David Gramit, Department of Music (\$142,970): Resituating the local: Early Edmonton and the urban musical practices of settlement

David Beck, Linguistics; Grzegorz Kondrak, Computing Science; Yvonne Lam, Modern Languages and Cultural Studies (\$449,068): Upper Necaxa Totonac in context: Exploring the past, present, and future of Northern Totonac

John Ives, Anthropology (\$184,285): Apachean origins: New explorations of the Canadian heritage of 13th century Dene at Promontory Point, Utah

Jane Samson, History and Classics (\$83,219): George Sarawia: Multiple masculinities in the Melanesian Mission

Robert Klassen and Mark Gierl, Educational Psychology (\$270,042): Developing tools to predict new teacher effectiveness

Alison Taylor, Educational Policy Studies (\$159,088): Beyond learning for earning: A cross-university study of Canadian students in community service learning programs

Florin Sabac, Accounting, Operations and Information Systems; Dorothee Feils, Marketing, Business Economics and Law (\$92,400): Accounting performance measures and corporate governance

John Parkins, Resource Economics and Environmental Sociology (\$380,190): Exploring and transforming a cultural imaginary of energy development in Canada (also involved in a project at another university that received \$443,559)

Pirkko Markula, Faculty of Physical Education and Recreation (\$87,601): So you think you can dance: Dance as a physical cultural practice

Elena Nicoladis, Psychology; Paula Marentette, Augustana Campus (\$414,772): Gestures as a potential cue to children's verb learning

Lukas Roth, Finance and Statistical Analysis (\$107,253): The economic consequences of shareholder voting: A cross-country analysis (also involved in a project at another university that received \$123,271)

David McConnell, Occupational Therapy (\$206,878): Social inclusion of children and youth with disabilities in Canada

Christian Andersen, Faculty of Native Studies (\$191,255): The forgotten era of the Forgotten People: A hidden history of Métis in Parkland, Saskatchewan, 1918–1965

38 Joseph-Armand Bombardier Canada master's scholarships, each worth \$17,500; 14 Joseph-Armand Bombardier Canada doctoral scholarships, each worth \$105,000 over three years; 17 SSHRC doctoral fellowships worth \$20,000

per year for up to four years; and one SSHRC post-doctoral fellowship: \$80,000 to Rebecca Graff-McRae for a project entitled "Neither Prison Nor Museum: The Politics of Conflict Memory in Northern Ireland." ■



Jack Ives standing at the mouth of one of the Promontory Caves in Utah.

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TAWAKKOL KARMAN AND LEYMAH GBOWEE —VOICE OF THE PEOPLE with Nadwa Al-Dawsari

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Join **Tawakkol Karman**, a Yemeni political activist nicknamed "the mother of revolution" and **Leymah Gbowee**, Liberia's peace building initiative leader in conversation with Nadwa Al-Dawsari, a middle-east conflict resolution specialist and civil society leader in the field of society development, women and youth empowerment, and conflict management.

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SHIFTING
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Course fosters citizenship and engagement through science

Michael Brown

The ultimate marriage of education and research may well be the point where learning translates into a measurable and immediate societal impact.

That kind of impact has been an unexpected but very real outcome of past undergraduate global citizenship, and will hopefully be an outcome experienced by students in the inaugural run of chemistry professor Glen Loppnow's year-long Science Citizenship 299 course.

"The creativity and the scope of what the students try to do blows me away every time," said Loppnow, who was part of groups that piloted citizenship projects in previous Chemistry 371 and Science 100 courses. "Through these projects, students have saved hundreds of

lives and raised thousands of dollars for charity.

"It is just amazing what students can do when you give them the space to make choices themselves."

Science Citizenship is designed to allow student groups to research the science behind a chosen global issue, orally present the results of that research, and implement a local solution to that issue, scheduled for first delivery in 2012-13. The course emphasizes student-centred knowledge construction, peer mentoring, active and discovery learning, effective teamwork, creative problem-solving and citizenship to the community.

"The idea is to bring students together in groups to research the science behind some global issue," said Loppnow. "It is really a new spin on community service-learning.

"They have to decide on the problem, they have to decide on the solution. They decide everything about this. It is a good way of setting students up as the leaders we know they are and giving them an experience that benefits not only the university and the students themselves, but the community as well."

Some of the projects piloted in the Science 100 class targeted Aboriginal health care, poverty, water and water security, food for homeless people, global conflict and even lack of kindness.

"It is really a holistic experience for students," said Loppnow. "They get to exercise that creative side of their personality, which is really important in science, but one which we don't have a lot of defined exercise for in our program."

"It is a good way of setting students up as the leaders we know they are and giving them an experience that benefits not only the university and the students themselves, but the community as well."

Glen Loppnow



Glen Loppnow leads his Science Citizenship 299 students through a discussion.

Seeking a new measuring stick for group learning

Michael Brown

With secondary-school educators increasingly asking students to work in a team dynamic in a concerted effort to shift the responsibility for learning onto the learner, Elaine Simmt is asking whether perhaps accompanying this shift should be a corresponding change in how learning is assessed.



Elaine Simmt

"There is a lot of emphasis today asking to work on things collaboratively, but all of the tools we have in education for assessing that learning always go back to the individual," said Simmt, a secondary-education researcher whose focus is on mathematics education. "We're asking, is there a way of observing the learning of that collective group not as a collection of individuals, but as a coherent group?"

To help her tackle this question, Simmt was awarded a 2012-13 McCalla Professorship.

In the proposed project, Simmt explains, a mix of longtime collaborators, graduate and undergraduate students will work with a research group of Canadian educational researchers to develop techniques for

observing collective knowing in action and to find appropriate ways of documenting, displaying and communicating complex data from classroom contexts.

"If we're asking people to do group work, each person has made a unique contribution in some way, but it is to a group project—and everybody in that group may not be able to answer test question 'A' because that is not the contribution they made," she said. "We want to identify tools for collecting data, techniques for analyzing it, and areas where we can shift our focus from the individual to the collective."

She adds, "This may be challenging many people's assumptions about learning in school and whether it matters if it is the individual to be assessed in the end."

As former chair of the Department of Secondary Education, Simmt says internal awards like the McCalla not only validate one's work, but also allow professors to experiment with how to best link the classroom and the lab.

"The McCalla provides researchers with an opportunity to focus on a project that helps incorporate teaching and the role academics play in developing future scholars and getting undergraduates thinking about research," she said.

"The McCalla has a special place because not all awards allow you to think in terms of how research can contribute to your teaching."

The McCalla Professorship is named after the first dean of the Faculty of Graduate Studies and Research. McCalla professors acknowledge the importance of students, conduct themselves in an ethical manner, are collaborative and open to change, take pride in history and traditions, and are committed to integrating their research and teaching. ■

McCalla

TLEF

Thanks to a consultation process with the students, Loppnow says, the course also contains aspects of professional development for scientists, such as ethics, societal responsibilities, science culture, proposal writing, scientist characteristics and career paths.

Loppnow was the recipient of a \$20,600 U of A Teaching and Learning Enhancement Fund grant,

which he says is being used in part to fund a mentoring element of the course, in which alumni peers are brought in to help guide the projects.

"I think the university's TLEF program is fantastic," said Loppnow. "This is the only way to get funding to do any sort of initiatives on the education side in science; there is just no other funding source available." ■

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Monday, October 29	Tuesday, October 30	Wednesday, October 31	Thursday, November 1	Friday, November 2
Check out the online Green Guide and win! sustainability.ualberta.ca/greenguide				
Local Food Days, Engrained Café (2nd floor ECHA), 8:30am to 3pm				
Local Food Days, Lister Market, 11am to 8pm				
	Sustainability Fair, Main Floor SUB, 9am to 3pm			
	Hybrid Vehicle Pool Display, with FREE Fair Trade Coffee Celebration Plaza, 9am to 3pm			
Free Bicycle Checks Celebration Plaza, 10am to 2pm	Greening your Commute Main Floor SUB, 9am to 3pm	Health & Wellness Movement Fruit Stand Agriculture-Forestry Lounge, 11am to 3pm	Electronics Roundup Surface parking lot south of the Jubilee Auditorium, 8am to 4pm	Farmers' Market Main Floor SUB, 10am to 2pm
End Malaria Initiative Bake Sale ECHA, 10am to 5pm	Health Nuts Bake Sale Chemistry, 9am to 3pm	Mike Clelland on Sustainable Prosperity Business Building, Executive Floor - Room 5-04, 12pm to 1pm	Greening your Purchasing at UAlberta Main Floor SUB, 9am to 3pm	Net Zero Home Tour ☆ Meet at Office of Sustainability (2-06 North Power Plant), 11am to 1pm
SAW 2012 Kick-Off Quad, 11am to 1pm	End Malaria Initiative Bake Sale Chemistry, 10am to 5pm	Campus Sustainability Tour ☆ CAB 357, 12pm to 1:30pm	ECSC Elk Burger BBQ Quad, 11am to 1pm	Telus World of Science - Environment Gallery Exhibit ☆ Meet at Office of Sustainability (2-06 North Power Plant), 2pm to 5pm
Social Change Café Dewey's Lounge, 5pm to 6pm	Sustainability 101 Ed 276, 1pm to 2pm	Fashioning Feathers Royal Alberta Provincial Museum Tour ☆ Meet at Office of Sustainability (2-06 North Power Plant), 2pm to 4pm	Glenn Isaac, of the North Saskatchewan Riverkeepers Law Centre, Room 193, 12pm to 1:30pm	Sustainable Dinner and Party with a Purpose ☆ Dinwoodie Lounge, 2nd Floor SUB Dinner - 6:30pm to 7:30pm Concert - Doors @ 8pm
SUSTAINexchange: Myths and Realities of the Green Economy ECHA 1-190, 5:30pm to 7pm	Voices of Nature Concert ☆ Myer Horowitz Theatre, 1pm to 2pm	Trick-or-TrEAT ☆ ETLC 1-007, 5pm to 9pm	District Energy System - Interpretive Centre Launch and Tour ☆ Meet at the Cooling Plant on Campus (CPOC), 12:30pm to 1:50pm	<div> <div>Academic</div> <div>Facilities, Operations & Services</div> <div>Outreach & Engagement</div> <div>Student-Led</div> <div>Multiple Streams</div> </div>
	Winter Cycling Workshop ☆ O30-G SUB, 2pm to 4pm	Sustainable Communities ETLC 2-001, 5:15pm to 6:20pm	Green Cleaning Workshop ☆ ECHA 1-125, 12:30pm to 2pm	
	Up Close and Personal with Energy Alumni Room, Main Floor SUB, 3:30pm to 5pm	FairTrade Learning Session Colt Design Lab (ETLC), 5:15pm to 6:30pm	Edmonton Waste Management Centre Tour ☆ Meet at Office of Sustainability (2-06 North Power Plant), 12:30pm to 4pm	
	Opportunities in Sustainability Career Forum ☆ CCIS L1-160, 5pm to 7pm	Reverse Trick-or-Treat Colt Design Lab (ETLC), 6pm to 8:30pm	Sustainable Cooking Class ☆ International Centre (Main floor HUB), 5pm to 8pm	
All event details subject to change.			Clean Drinks Networking and Learning: Energy Efficiency and Green Building ☆ Faculty Club, 6pm to 8pm	☆ These events require preregistration. See website for details.

guidebook

SAW has gone mobile! Download Guidebook for SAW 2012 event details and descriptions. See our website for more info.

sustainability.ualberta.ca/SAW



Co-ordinator breaks down barriers to sustainable lifestyle

Michael Brown

According to Emily Dietrich, the path to sustainability is identifying the barriers to behaviour change and then letting people take over.

"I believe that we can accomplish a lot if we believe in the power of people and we harness their energy and get them to work towards a cause together," said the sustainability co-ordinator with the university's Office of Sustainability. "Sustainability isn't a job for me, it's a way of life, so I'm grateful to be in a position to influence and facilitate people to move towards a common good."

Dietrich, who has been with the office since June 2010, is one of a handful of sustainability program leads tasked with co-ordinating staff and volunteer efforts, implementing programs and solving problems that can prevent people from adopting sustainable practices.

"One of our key jobs is to survey the environment to really understand the constraints that hold people back from our target behaviours identified in the U of A's sustainability plan," said Dietrich, "then to design programs that build the capacity for people to make change in their area, or increase awareness about the need to make change."

Some of the programs Dietrich has overseen, from the needs assessment stage to implementation and evaluation, include the university's green-procurement policy; EcoREPs, which is a six-month cohort program to help staff and faculty become sustainability champions in the workplace; and the Waste in Residence program, which involves increasing diversion rates in recycling and decreasing contamination at East Campus Village.

Dietrich explains that the Waste in Residence project necessitated a number of comprehensive tasks, including getting research ethics approval, surveying focus groups, setting up a monitoring system, and using specific outreach and engagement to change people's behaviour.

"If too many wrong things are put in a recycle bin, it can be sent to a landfill," she said. "We needed to change people's behaviour to ensure they are putting recyclables in the proper bins."

"Basically, problems are solved by getting different people sitting in the same room and facilitating conversations that move us towards action and common ground."

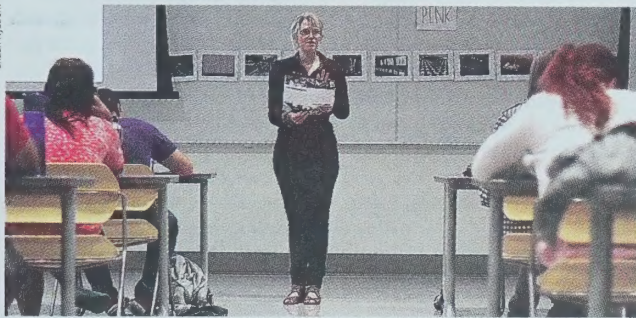
staff spotlight

Dietrich says she is also responsible for leading a team of recent graduates hired on as full-time assistants and part-time interns. The Office of Sustainability also partners up with Sustain SU to co-ordinate about 50 volunteers from across the campus. "It is a great part of my job because I get to meet lots of people who are passionate about sustainability," she said.

Dietrich explains that passion is what drives people who are

looking for a career in sustainability. She says what they find when they join the Office of Sustainability is a lifestyle.

"I call the people I work with my family at work," she said. "We are all committed to excellence, we're all passionate about sustainability and passionate about making sure we foster, preserve and protect our relationships—both with the campus community and with ourselves." ■



Emily Dietrich leads a number of the university's sustainability projects.

Getting the Green Key to Lister Conference Centre

Jamie Hanlon

For many, the gold standard may be the way to distinguish quality. But when it comes to sustainable practices and reducing environmental impact, the Lister Conference Centre has achieved a green standard—the prestigious industry Green Key status.

The facility, which comprises eight meeting rooms and 20 hotel-style guest rooms, has been awarded three keys by the Green Key Eco-Rating Program and is one of only four university-based establishments in Canada to be rated. Robert Dunham, director of hospitality services, says enrolling in the program, which was accomplished with help from the U of A's Office of Sustainability, matched the centre's and the institution's values, and facilitated an opportunity to highlight the centre's green focus to clientele.

"We were looking for ways to prove to ourselves and our clientele that we treat our service in an environmentally friendly way," he said. "The Green Key program was the ideal vehicle to help us do just that."

Developed in 1994 by Denmark's Foundation for Environmental Education, the Green Key eco-rating program measures initiatives that hotels and resorts undertake in areas such as use of water and energy, environmental management and staff involvement in

sustainable practices. Nearly 3,000 establishments participate in the eco-tourism rating program.

Dunham is pleased with the centre's initial rating, but notes that annual reviews will afford his team an opportunity to improve their commitment—and the rating.

"Green Key wants its members to get better at providing a service that is consistent, and that's what we're looking for all the time, regardless of being part of the program—consistency in service," said Dunham. "Customers are becoming more aware of these things, and the Green Key program is something we're fortunate to be a part of."

Dunham is pleased that the U of A is the first institution in Western Canada to receive the rating, but muses that others may move to be part of this eco-program as well. Nonetheless, he wants to use this award to drive planning for the centre's future, and to market the centre and its commitment to sustainable values to potential facility users and guests. From an environmental and practical perspective, he hopes departments on campus will also take notice of this award when planning for visitors to the U of A.

"These rooms are a pretty well-kept secret," said Dunham. "One of our business goals is to fill those rooms each and every night. That's an ongoing challenge, but this will help in its own way to create a little more awareness." ■

Boreal forest found to be adaptive

Brian Murphy

Northern Alberta's boreal forest shows a surprising resiliency to human intrusion, but University of Alberta researchers warn the landscape has a definite breaking point.

The research team, led by graduate student Stephen Mayor, found that up to a certain point, plant life in the boreal forest responded to intrusions such as roadways and farm fields by actually increasing its biodiversity.

The researchers counted plant species in sites across the whole of northern Alberta—an area larger than Germany. They then used satellite and aerial photos to compare the numbers of plant species with the percentage of human-disturbed land versus the percentage of natural, undisturbed boreal landscape.

"It might be expected that the more disturbance, the fewer kinds of plants we would find," said Mayor. "But we actually found more species were growing as the percentage of disturbed land rose."

However, Mayor says, there is a tipping point when more than half of an area is visibly changed by human use. "When the amount of disturbed land in a study area began to exceed 50 per cent, a threshold was reached and we found fewer and fewer plant species."

"Our research findings mean that the variety of plant life in the boreal forest can tolerate farms, forestry, even oil and gas extraction—but only in moderation," said Mayor. "There are real and predictable limits to how much intrusion nature will allow."

The researchers believe their study area, which encompassed all of northern Alberta including the oilsands, was the largest ever used in a study of this kind—an opportunity Mayor says he wouldn't have had at another university.

"The University of Alberta enabled me to start answering questions about how humans alter the natural world, that might not be possible elsewhere."

The research was published Oct. 16 in the journal *Nature Communications*. ■



Stephen Mayor is a doctoral student in biological sciences.

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Guru of global governance seconded to West Indies

Geoff McMaster

The U of A's eminent expert on international politics, Andy Knight, has been seconded by the University of the West Indies for a five-year term to serve as director of its Institute of International Relations in Trinidad.

In addition to building leadership capacity in the Caribbean, helping to train diplomats and foreign service personnel for the world stage, he will also strengthen ties between the U of A and the University of the West Indies' three campuses in Trinidad, Barbados and Jamaica.

Last summer, Knight received a call from the Caribbean university, which was searching for a high-calibre and highly networked leader in the field of international relations.

As it happened, he had just returned from Kenya, helping that country's foreign ministry build capacity in its own foreign service.

Since arriving at the U of A in 1998, Knight has served as editor of *Global Governance*, an international policy journal, and has been engaged in a variety of research projects including the history and role of the United Nations, children of war, the rise of female suicide bombers and the responsibility to protect vulnerable populations from genocide and mass murder. He has served as chair of the political science department for the past three years.

"I sent my CV [to the U of the West Indies], because I'd always wanted to have an opportunity to give back to the Caribbean," said the Barbados native, who moved

"I'd always wanted to have an opportunity to give back to the Caribbean. It's about helping these small islands punch above their weight at an international level."

Andy Knight

to Canada during high school. "It's about helping these small islands punch above their weight at an international level, figuring out how they can operate within multilateral fora like the UN system, the World Bank, the World Trade

Organization and the International Monetary Fund."

As part of that arrangement, Knight's job will involve increasing both faculty and student exchanges between the U of A and the University of the West Indies, giving weight to a revised MOU signed five years ago by the principal of the University of the West Indies and President Indira Samarasekera.

"One thing the U of A would like to see as part of this secondment is an increase in the number of our students coming from the Caribbean," said Knight. "The Caribbean is in our backyard [compared with the far-flung homes of many of the U of A's foreign students], and my sense is that there hasn't been a champion in the Caribbean for the U of A."

The Institute of International Relations was founded around the time of Trinidad's independence from Britain 50 years ago. It runs master's and doctoral programs in international relations, as well as an active research program.

"Its mandate is to build capacity for leadership throughout the English-speaking Caribbean, training graduate students who will perhaps move on to become members of the foreign service or Department of National Defence," says Knight, "in other words, political leaders in the future. Some will go to the UN, some to the Organization



Andy Knight

of American States and other international organizations."

At United Nations meetings, he says, "you already get the sense of Caribbean leaders performing extremely well, above and beyond what some might think they're capable of. And that has to do with the kind of training they get at the institute, as well as other international schools."

Officially starting in January, Knight says he will be charged with increasing that level of training and networking with other international institutes around the world, including the United Nations and International Studies Association. Trinidad's Ministry of National Security also approached him to head up a think tank on security in the region, tackling such issues as drug trafficking, human smuggling and piracy.

"I think this can be very rewarding in terms of the long-term impact it can have on training future leaders of the region." ■

Are You a Winner?

Congratulations to G.H. Sperber, who won a now-vintage Butterdome butter dish as part of Folio's Oct. 5 "Are You a Winner?" contest. Sperber identified the photo as a plaque set in the wall of the vestibule entrance atrium of the Dentistry/Pharmacy Building, previously the Medical School, presented by the Medical Class of 1928. To win your own butter dish, identify where the subject pictured is located and email your answer to folio@ualberta.ca by noon on Monday, Oct. 29, and you will be entered into the draw.



John Wain



CONGRATULATIONS

The University of Alberta would like to congratulate the faculty members who, on July 1, were either promoted to full professor or who were granted tenure, which constitutes the designation of associate professor.

Promoted to Professor

G. Branko Braam
Jason P. Carey
K. Ming Chan
Jie Chen
Bruce F. Cockburn
Piet Defraeye
Cecily M. Devereux
Michael K. Deyholos
Rasmus Fatum
Karen J. Goodman
Donna L. Goodwin
Jeffrey R. Harris
Nicholas L. Holt
Atul Humar
David J. Kahane
Robert M. Klassen
Naomi T. Krogman
Rakesh Kumar
Sheree Kwong See
Raimar Loebenber
Laurie E. Mereu
David Mittin
Sushanta K. Mitra
Petr Musilek
Paul Myers
Elena Nicoladis
Glen J. Pearson
Jelena Pogojan
Peter Popkowski Leszczyc
Saifudin Rashid
Luis Schang
Marcello Tonelli

Medicine & Dentistry
Engineering
Medicine & Dentistry
Engineering
Engineering
Arts
Arts
Sciences
Business
Medicine & Dentistry
Phys Ed and Rec
Medicine & Dentistry
Phys Ed and Rec
Medicine & Dentistry
Arts
Education
ALES
Medicine & Dentistry
Arts/Science
Pharmacy and PS
Medicine & Dentistry
Engineering
Engineering
Engineering
Science
Arts/Science
Medicine & Dentistry
Arts
Business
Medicine & Dentistry
Medicine & Dentistry
Medicine & Dentistry

Vien Van
Jonathan Veinot
Sergiy Vorobyov
Beverly A. Williams
Winnie W. S. Wong
Erin D. Wright
Howard S. Young
Heather S. Zwicker

Granted Tenure

Catherine A. Adams
Eric M. Adams
Robert G. Aitken
Isabel Altamirano-Jimenez
Sven Anders
Greg J. Anderson
Ofer Arazy
Sean Bagshaw
Daniel Barreda
Mary A. Beckie
Eric Bedard
Gregg G. Blevins
Vera Brencic
Ingo Brigandt
Kenneth S. Butcher
Christopher W. Cairo
Jeremy Caplan
Jeremy Caradonna
Alexander O. Carpenter
Christine Ceci
David W. Chorney
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Paul M. Newton
David Nobes
Brenda Parlee
Robert Pauly
Carla Peck
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Gwendolyn R. Rempel
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"My congratulations to our newest professors and associate professors! You are a vital part of our institution and your work as teachers and researchers continues to help us uphold our promise—uplifting the whole people."

— President Indira Samarasekera



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"uplifting the whole people"

— HENRY MARSHALL TORY, FOUNDING PRESIDENT, 1908

Artist explores nano-scale landscape

Jamie Hanlon

As a landscape artist, Patti Pente is used to navigating the notions of space and scale. But in her latest works, Pente finds herself working in a much smaller scale—nano, to be exact.

That's not to say that viewing her current works will require a powerful microscope. In fact, her works are visual experiments based on her collaboration with the National Institute for Nanotechnology. As the second Scholar-in-Residence for Arts Research at NINT, Pente (an associate professor of elementary education) saw the opportunity to partake in what she calls "dislodging myself from the familiar" by exploring the nano landscape and how we perceive ourselves, each other and that space—the same approach she takes when working with more traditional landscape images.

Pente is quick to quell any preconceived notions about the nature of the project and the residency. "This project is not about art or artists acting in a public relations position on behalf of nanotechnology, nor is it simply scientific materials and procedures becoming the materials of art," she said. "This kind of project is about seeking a symbiotic relationship between two different subject areas, and about a sharing of ideas among people with different areas of expertise. I never know what will happen when I begin this kind of project."

Although Pente's time at NINT concluded in May, the experience has fostered growth and greater curiosity. She was grateful for the co-operation of NINT researchers



Patti Pente explores the nano landscape in her working studio installation at the Herbert T. Coultts Library that runs until the end of the month. (Photo: Michael Brown)

and was pleased to have been able to contribute an image for one of their papers that was published in a leading scientific journal. She points out that the nano space may seem complicated and technical when we look at the digital renderings of the data, but at its core, she says, "It's all about the basic structures of the world." Though she and her nanotech colleagues share the same interests in "what if" scenarios, she says the worlds in which they create are quite different.

"In our physical world, we live and exist with all our senses, yet within the nano realm, scientists typically work and navigate with the visual, as do landscape artists," she said. "What if data were translated into the other senses? What might it sound like? What would it smell like? All of those senses that we don't typically consider in landscape art—I'm quite interested in that."

Pente's project yielded a series called *Wired Roots*. The next stage of her work is taking place in a working studio installation that began Oct. 14 at the Herbert T. Coultts Library in the education complex. Over two weeks, she is continuing to explore the questions raised about scale and sense of place. Pente says visitors are invited to explore, question and interact with her and the works in place. She hopes that they come away with a heightened understanding and appreciation of it, and of nanotechnology.

"Viewers might think of what these two things are doing together—nanotechnology and landscape art—and think about their own bodies in this space in terms of a sense of scale, and of how we perceive the world," she said. "If they can even just consider that for a minute, then I'll be happy."

Making a public health superhero

Folio Staff

They might not leap tall buildings or drive around in a batmobile, but public health "superheroes" grapple with some mighty large foes, including obesity, smoking, alcohol and climate change.

But to do their jobs in true heroic fashion, public health professionals need more training to become well-rounded leaders capable of working with government and policy makers on health challenges, according to new research published in the Oct. 6 edition of *The Lancet*.

Researchers with the universities of Alberta, Leeds and Wisconsin joined forces to examine what makes a "public health superhero." They identified several common traits, including an exceptional ability to be "network-connectors" capable of working across multiple sectors in government, finance, news media and non-government organizations.

"We realized that in our public health training programs, we either don't give students any leadership training or we give them at most a basic course because that's all the time they have for," said study co-author Ken Zakariasen, a professor in the School of Public Health.

"What's missing in the discipline are high-level leaders who can work across areas that can make a difference at a national level and at an international level."

Tackling public health challenges does not necessarily require a background in public health, Zakariasen notes, pointing to New York Mayor Michael Bloomberg for his work to champion a ban on large sodas and sugar-laden beverages at restaurants, theatres and vendors in the city.

"Mayor Bloomberg is not in public health, but he has a passion for improving people's health by doing everything a government can do to set standards."

In his own work, which involves using virtual technology to improve the health of First Nations peoples in Alberta reserves, Zakariasen said leadership training can make a difference. "How do you make an impact when you have one isolated health worker in a community? People in the public health community are slow to pick up on things like that."

For their commentary in *The Lancet*, Zakariasen's team called on 3,000 members of the U.K.'s Faculty of Public Health to nominate a health superhero, of which 10 were asked to talk about the challenges they see.

This project was funded by the Worldwide Universities Network. ■

"What's missing in the discipline are high-level leaders that can work across areas that can make a difference at a national level and at an international level."

Ken Zachariasen

The right response: A letter to the U of A community

Philip Stack, associate vice-president, Risk Management Services

I am writing to the University of Alberta community in response to recent newspaper headlines suggesting there was "chaos" in the University's response to the HUB Mall incident of June 15, 2012. In fact, the very opposite was the case with a calm and professional response. Indeed, a thorough review of our response processes found a system that worked exceptionally well.

I want to reaffirm that I am extremely proud of the way all U of A staff responded to the unprecedented acts of violence on our campus this past June, especially first responders and members of Protective Services.

Every person involved in the response demonstrated exceptional professionalism and judgment; they provided outstanding service to students, staff, visitors and the Edmonton Police Service, with whom we work closely. In particular, I wish to commend Bill Mowbray, director of University of Alberta Protective Services, and every one of his peace officers for their extraordinary response.

The Integrated Emergency Master Plan guides emergency response at the University; the plan is continually updated and its processes tested by senior administrators in scheduled emergency simulations, as well as dozens of other exercises and drills carried out each year by the Office of Emergency Management.

In the June emergency, Crisis Management Team members (senior administration from across the University) were notified beginning at 1:32 a.m. Within 45 minutes, team members were in place and the Emergency Operations Centre was set up and operational. Forty-seven of the University's most senior administrators, including all the vice-presidents,

began meeting in calm and focused sessions. They were doing exactly what they had practised: considering the possible impact on the people and property of the University, and making plans to minimize that impact. As a member of the team that was present for the entire activation, I was witness to a clear sense of calm and professionalism throughout the event. I would gladly challenge any organization the size of the U of A to gather its senior decision makers as quickly, and to perform as effectively.

As a normal course of operations, a full debrief occurs following each activation of the Crisis Management Team. The purpose of such debriefings is to have open and frank discussions about what worked, what didn't work, and what we can do better. This discussion reflects best practices and is essential in order to continue to improve. Our review process of the response to the HUB incident concluded that the university did an excellent job in responding.

Of course we learned of things we can improve—the very point of the discussions. Comments in some news media were obtained from these frank discussions via documents released through a freedom of information request. As selectively chosen by the reporter, the comments presented in the media are not a true reflection of what in reality was a well-managed situation. Media reports of "chaos" are simply wrong and unethical.

The University and its dedicated staff responded with exceptional professionalism and care for the people affected by these terrible crimes. Because of this and because of our commitment to continuous improvement, the university will be even better in responding should such things ever happen again. I am certainly not alone in the fervent hope that we need never face such a situation on our campus again. ■

Helping teens overcome anxiety

Raquel Maurier

Researchers in the Faculty of Medicine & Dentistry received \$830,000 in funding to develop an interactive online program that teaches anxious youth to better cope with life's stressors.

"This is really meant to bridge that gap after the crisis—to ensure youth are getting timely care after a crisis due to anxiety."

Amanda Newton

Pediatrics researcher Amanda Newton and her team are receiving \$500,000 over five years from the Royal Bank of Canada Children's Mental Health Project. This funding came about as a result of a partnership between the Stollery Children's Hospital Foundation and the RBC Foundation. The research team also received another \$330,000 from the Canadian Institutes of Health Research.

The focus of the program will be on teens between ages 13 and 17 who visit the Stollery Children's Hospital emergency department and a similar centre in Halifax.

Teens identified as having an anxiety disorder will begin an online

cognitive behavioural therapy consisting of eight lessons on how to cope with life stressors. Treatment will combine exposure to feared situations with skills training—such as self-talk or deep breathing—to help replace anxious thoughts about feared situations with healthier thoughts. Parents will also take part in the program, and given information on how to support their child.

Newton says the onus is currently on families to reach out to a family physician or psychiatrist.

"This is really meant to bridge that gap after the crisis—to ensure youth are getting timely care after a crisis due to anxiety," said Newton, who found that 26 per cent of all mental-health visits to emergency rooms between 2002 and 2008 by children were due to anxiety-based crises. "This program will give youth the opportunity to learn new skills to cope with anxiety and then reflect on how their new strategies worked."

A program like this is needed because there are limited resources in Canada to help teens with anxiety disorders and even fewer trained specialists in this area, notes Newton. By age 16, up to 10 per cent of youth are diagnosed with an anxiety disorder that is serious enough to require treatment. Anxiety-based crises are among the most frequent reasons for emergency department mental health visits by youth in Canada. ■

news [shorts]

folio presents a sample of some of the stories that recently appeared on the [ualberta.ca news](http://ualberta.ca/news) page. To read more, go to www.news.ualberta.ca.

New dinosaur museum named for Phil Currie

When it opens next July, Grande Prairie's hottest new attraction will bear the name of the U of A's own star of paleontology—Philip Currie. Near an exceptional dinosaur-bone bed known as the River of Death and covering 41,000 square feet, the Philip J. Currie Dinosaur Museum will house fossils from the area as well as state-of-the-art research and educational facilities. The \$27-million project recently even drew on the fundraising efforts of celebrities Lorne Michaels, creator of Saturday Night Live, and comic Dan Aykroyd, a dinosaur enthusiast.

Medication use higher among overweight kids

A new study shows overweight children are far more likely to take prescription medications than children of a normal weight—a trend that adds to already higher health-care costs for treating childhood obesity.

Researchers from the School of Public Health found that overweight and obese kids aged 12 to 19 years were 59 per cent more likely than their normal-weight peers to take prescription medication.

"Overweight and obese patients are more expensive to the health-care system in terms of using medication and prescription drugs," said study co-author Christina Fung. "In Canada, we have a public health-care system, and this is an issue of accountability and where health-care dollars are spent, and when."

The study also showed that overweight and obese children were twice as likely to take medication for respiratory ailments such as asthma and allergies.

Co-author Paul Veugelers, Canada Research Chair in Population Health, said the data show that governments need to direct more attention to prevention. Childhood obesity rates have tripled in Canada over the last 25 years, and an estimated 34 per cent of kids aged two to 17 are now overweight or obese.

"By investing in prevention in kids—promotion of healthy eating and active living—there's an immediate payback in terms of health-care costs," said Veugelers, a professor and director of the Population Health Intervention Research Unit that works with the Alberta Project Promoting active Living and healthy Eating (APPLE Schools). "Children who are not overweight are less likely to develop diabetes, or 30 to 40 years later get a heart attack or end up with cancer. Forty years from now you see a real return in terms of health-care costs."

Severe allergic asthma linked to gene variation

A new study shows that your genes could be the reason your allergic asthma or hay fever is so severe.

Lisa Cameron, GlaxoSmithKline-CIHR Rx&D Chair in Airway Inflammation, and her research team showed that levels of CRTh2 protein are higher in the blood of people with allergies than of those with no allergies.

The team then observed that patients who had a particular gene variation produced more of the CRTh2 protein. New drugs that target CRTh2 are now in clinical trials; their approval could lead to better treatment plans for people with very bad allergic asthma.

"It may be important that physicians know which individuals have this gene variation in terms of prescribing and dosing of these new drugs, since carriers would likely be the most responsive," said Cameron.

This work is funded by the Canadian Institutes of Health Research, Alberta Innovates – Health Solutions and GlaxoSmithKline.

Enterprise Square takes on three new art exhibits

University of Alberta Museums returns to Enterprise Square with a trio of new exhibits.

A touring exhibition entitled *Perceptions of Promise: Biotechnology, Society and Art* offers a compelling glimpse into a unique collaboration between scientists, scholars and nine Canadian and international artists, in a visually engaging exhibition that challenges viewers to consider the positive and negative possibilities of biotechnology and stem-cell research.

"Given the important role of popular culture as a tool for public engagement, education and policy debate, it seems essential to foster a greater dialogue between the artistic and scientific communities. Not for the purpose of recruiting one in the service of the other, but to ensure that both communities are informed," said Timothy Caulfield, one of the participating scholars in *Perceptions of Promise* and research director of the U of A's Health Law Institute.

Also opening in the fall are two new exhibitions from the U of A Art Collection. *Passion Project* features recent donations to the art collection and explores the passion that lies at the heart of every serious collector, as well as the passions of the researchers, students and museum professionals who engage with donated collections. *Immortal Beauty* explores the beauty, tradition and meditative power of Japanese art and calligraphy collected by the U of A, with a focus on the work of master calligrapher Shiko Kataoka. Both exhibits run from Nov. 22 to Jan. 26, 2013.

Perceptions of Promise runs from Nov. 8 to Jan. 5, 2013, at Enterprise Square.

University mourns loss of a teacher's teacher

Terry Carson, professor emeritus, and Michael Brown

Ted Aoki, a giant in the field of curriculum studies, and one-time chair of the secondary education department from 1978 to 1985, passed away in Vancouver on Aug. 31. He was 93.

Aoki had come from a family of teachers. Both of his parents were graduates of teachers college in Japan—invited to Canada, in 1910, by the Japanese community in Cumberland, B.C. Aoki was born in Cumberland in 1919, the eldest of five children.

He went on to earn a bachelor of commerce degree at the University of British Columbia. But despite being born in Canada, and a member of the Canadian army reserve in his university years, he was denied entry to the regular army in the Second World War as he and his entire family were forcibly relocated to the southern Alberta prairie in 1942.

For the next three years, Aoki worked picking sugar beets and cutting timber. Toward the end of the war, hearing of a severe teacher shortage, he put in an application to teach. As Aoki wrote of this experience later, his application was turned down. He noted that, "In spite of the teacher shortage, it seemed that there was still one too many Japanese teachers."

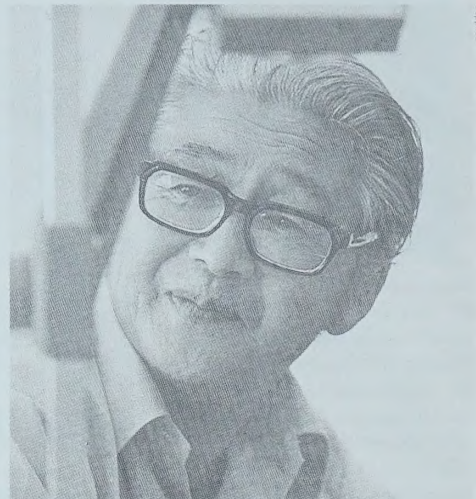
Undeterred, Aoki was finally admitted to the Calgary Normal School in 1945, but as a Japanese Canadian he still was not permitted to live within the city limits of Calgary. He taught elementary school and high school for a number of years in various locations in southern Alberta.

Aoki was primarily known as a teacher, and a great one at that. One of his regular observations was to say, "Education is not a journey; rather, to be educated means to travel with a different view."

It was his reputation as a teacher that brought Aoki to the Faculty of Education's Department of Secondary Education in 1964, which would serve as his academic home until 1985.

Many of his students recall their time with Aoki. He assigned challenging articles on the, then, novel ideas of qualitative assessment. He also encouraged class members to contribute ideas and bring papers that they found interesting. What was remarkable about Aoki's classroom was how engaged his students were. Equally remarkable was how Aoki stepped back, de-centring himself from the process.

And while Aoki is remembered as a great teacher, his enduring legacy is his contribution to the field of



Ted Aoki

curriculum studies. So much so, that the Canadian Association for Curriculum Studies (CACS) named an award in his honour meant for those who have made a "distinguished contribution to the field of curriculum studies."

"Ted had an uncanny ability to take whatever a student might say in class, no matter how haltingly, and 'read' the comment into a much broader intellectual and cultural framework," said David Smith, secondary education professor and former grad student of Aoki's, in accepting the 2011 CACS Ted T. Aoki Award. "[Ted] was a master at revealing how small things are connected to big things, so that one would invariably come out of his classes uplifted somehow, with a feeling that one had just been put in touch with something very important."

Aoki spoke to teachers and for teachers, at conferences, professional meetings and other scholarly events. Aoki, a teacher first, inevitably would turn these meetings into pedagogical occasions.

"Social studies educators will do well to remember that any true bridge is more than a physical bridge. It is a clearing—a site—into which Earth, sky, mortals and divinities are admitted," said Aoki at a conference of social studies educators in 1991. "Indeed, it is a dwelling place for humans who, in their longing to be together, belong together." ■

laurels

Stephen Strelkov, researcher in the Department of Agricultural, Food and Nutritional Science, has received the Outstanding Young Scientist Award from the Canadian Phytopathological Society in recognition of his work in combatting clubroot disease in canola plants.

Marcello Tonelli, researcher in the Division of Nephrology; **Kerry Courneya**, researcher in the Faculty of Physical Education and Recreation; and **Kim Raine**, researcher at the Centre for Health Promotion Studies, have all been elected as fellows of the Canadian Academy of Health Sciences.

The **Augustana Vikings hockey team** raised the 2011-12 Alberta Colleges Athletic Conference men's hockey championship banner Oct. 10.

classified ads

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MISCELLANEOUS

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talks & events

Talks & Events listings do not accept submissions via fax, mail, email or phone. Please enter events you'd like to appear in folio and at www.news.ualberta.ca/events. A more comprehensive list of events is available online at www.events.ualberta.ca. Deadline: noon one week prior to publication. Entries will be edited for style and length.

OCT. 20

University of Alberta Open House. The U of A's annual open house allows prospective students to explore our campus and the programs offered here. 9 a.m.–4 p.m. Butterdome.

Celebration of Innovation. This event is designed to inspire young scientists and to help the public discover the excitement of innovation—linking research to economic and social benefits. Hosted by John Acorn. Lecture topics include geothermal technology, meeting the world's need for animal protein, obesity, nanoscience and the oil sands. 11 a.m.–3:30 p.m. 1-140 CCIS.

Canadian Society for 18th-Century Studies Plenary Lecture. Srinivas Aravamudan, professor at Duke University, will be on hand to give a lecture entitled, *How Enlightenment Orientalism Became World Literature; Or, Have You Ever Heard of Hayy ibn Yaqzan?* This talk challenges the presentist metanarrative around world literature by dating its appearance back to the bifurcation of the religious and secular traditions as caused by the philology of Orientalism since the Renaissance. 2–3 p.m. Strathcona Room, Westin Hotel.

OCT. 22–25

Making the Medieval Manuscript. Erik Kwakkel, Medieval book historian at Leiden University, the Netherlands, will be on hand to host a series of in-depth discussion medieval manuscripts. Kwakkel specializes in the early history of the book—manuscripts and early print editions—and he will be offering a number of specialized events especially for members of the campus community who are interested in this remarkable field. Oct. 22, 2–4 p.m. Bruce Peel Special Collections Library, Rutherford Library; Oct. 23, 3:30–5 p.m. 243 CAB; Oct. 24, 7–9 p.m. Royal

Alberta Museum; Oct. 25, 1–4 p.m. Bruce Peel Special Collections Library.

OCT. 22–28

Open Access Week, a global event now entering its sixth year, serves as an opportunity for the academic and research community to continue to learn about the potential benefits of Open Access. For more, go to <http://guides.library.ualberta.ca/oa>.

OCT. 22

Minds That Matter Gairdner Symposium. Lectures by three distinguished speakers: Howard Cedar, Programming of DNA Methylation; Lorne Babiuk, Vaccines: Potential for Improving Human and Animal Health; and Michael Young, The Genetics of Sleep and Circadian Rhythms in *Drosophila*. For more information, call Bonnie Bock at 780-492-8415. 2–5 p.m. 2-490 ECHA.

Open Access Week: World Bank and SPARC Liveblog and Webcast. This kick-off event for Open Access Week will consist of a 90-minute panel discussion with OA experts from a variety of U of A stakeholder groups, as well as representatives from the World Bank and SPARC. 2–3:30 p.m. Main floor, Cameron Library.

OCT. 24

The Second Annual Arts-Based Research Symposium. Arts-Based Research Dissemination: Possibilities and Challenges. Noon. 4-104 Education North.

China Seminar Series. Walden Bellow, sociology professor of SUNY-Binghamton and St. Mary's University, will be on hand to give a talk entitled *Changing Appreciations of the People's Republic of China* of an Activist Academic from Southeast Asia. 3:30–5 p.m. 1-107 Tory Building.

Louis Hyndman Senior Lecture and Awards. Peter Sandoe, professor of bioethics at the University of Copenhagen, speaks about his research in bioethics, with particular emphasis on ethical issues related to animals, biotechnology and food production. 4:30–6:30 p.m. Wild Rose Room, Lister Conference Centre.

OCT. 26

Fulbright Canada Webinar for Canadian Students and Scholars. This webinar is intended to provide information to Canadian graduate students and faculty members interested in applying for the 2013-14 Fulbright student and scholar awards. To register, please visit www.fulbright.ca. 10 a.m.–2 p.m.

Cell Biology Friday Seminar Series. Bill Colmers, professor in the Department of Pharmacology, will give a talk entitled *Fear and Loathing—in Your Head*. Noon–1 p.m. 6-28 Medical Sciences.

18th Annual Eric J. Hanson Memorial Lecture. Severin Borenstein, professor at the Haas School of Business, University of California, Berkeley, is a world-renowned scholar in the fields of energy policy and competition policy. His talk, *What Will It Take to Make Renewable Energy Competitive?* will discuss the hurdles that exist for alternative energy sources, and the variety of policy arguments for government intervention. Please RSVP to ipe@ualberta.ca. 4–6 p.m. Convocation Hall.

OCT. 28

BPM Academy Strings and friends. The Academy Strings presents *An Afternoon of Chaconnes, Chorals, Dances and Divertimentos* with USO/AS conductor Petar Dundjerski. 2–4 p.m. Convocation Hall.

OCT. 29–NOV. 2

Sustainability Awareness Week. Join us for the fifth annual Sustainability Awareness Week (SAW) to learn something new, discover how you can get involved and explore sustainability-related issues that are relevant to you. Take part in dozens of events, all hosted by the Office of Sustainability and brought to you by many different student groups and on- and off-campus organizations. For more, visit sustainability.ualberta.ca/saw.

OCT. 29

Mobilizing Knowledge for Sustainable Agriculture: A Partnership Development Project Between Canada and Sri Lanka. The U of A is playing a lead role in bringing together a small team of researchers from Canada and Sri Lanka to explore how low-cost, ubiquitous information and communication technologies can contribute to food security objectives in developing countries by enhancing or cultivating local agricultural communities of practice. Team leads Gordon Gow, Naomi Krogman and Mary Beckie will lead this dialogue that will give people an opportunity to learn more about advances in sustainable agriculture. 4:30–5:30 p.m. TELUS Centre.

OCT. 30

The Legal Forum Centenary Speakers Series. The Leitch Lecture will be given by Chrystia Freeland, global editor-at-large of Reuters and previously U.S. managing editor of the *Financial Times* and Moscow correspondent for both the *FT* and the *Economist*. Both her parents were U of A law graduates. Her talk, *Who Built That? Money, Society and the State in the U.S. Election Race and Beyond*. RSVP to lawcomm@ualberta.ca. Noon–1:50 p.m. 231/237 Law Centre.

The Qur'anic Perspective on Tolerance. With a talk based on his book, *"The Spirit of Tolerance in Islam,"* Reza Shah-Kazemi, Ronning Centre Distinguished Fellow 2012, will demonstrate—using Western historical sources—that religious tolerance was in fact the historical norm that characterized the relationship between Muslims and non-Muslims. 3–4:30 p.m. 1-107 Tory Building.

Fashion Culture Network. Beverly Lemire, Henry Marshall Tory Chair and founding director of the Material Culture Institute, will give a lecture entitled *From Global Trade to Domestic Arts: Quilts and Quilt-Making in*

the North Atlantic World, c. 1500s–1900s. 8–9 p.m. 140 TELUS Centre.

OCT. 31

Thriller – A U of A United Way Campaign Fundraiser. Bring your zombie and non-zombie friends to the Main Gym at noon to celebrate Halloween by learning Michael Jackson's "Thriller" zombie dance in support of the U of A's United Way Campaign.

Tenses & Pizza. The Centre for Writers hosts weekly workshops on the English language with free food. Open to all U of A students, faculty, staff and C4W tutors. Noon–1 p.m. 1-26 Assiniboia Hall.

NOV. 1

Discussion with Glenn Isaac, executive director of the North Saskatchewan Riverkeepers. Hear Isaac discuss the environmental significance of the North Saskatchewan River basin and challenges to protect it under recent changes to Canadian environmental legislation. RSVP to fein-stein@ualberta.ca. Noon–1:30 p.m. 193 Law Centre.

China Seminar Series. Stanley Rosen, professor at the University of Southern California, will give a talk entitled *The Rise of China and the Contradictions in Chinese Policies and Their Consequences: Will the Real China Please Stand Up?* The talk will focus on the very different and often contradictory things China is trying to achieve simultaneously. The lecture will focus primarily on popular culture, with special emphasis on the film industry. 3:30–5 p.m. 10-4 Tory Building.

NOV. 3

Educated Wallet – Financial Literacy for Kids. Wondering how to help your children avoid financial pitfalls and teach them to be savvy with their money? Learn how to teach your kids the fundamentals of finance from alumna Lesley Scorgie, '05 B.Com., author of *Rich by Thirty* and *Rich by Forty*. \$15 per adult; \$5 for youth aged 14–18. 10 a.m.–Noon. 1-05 School of Business.

NOV. 4

Piano Recital. Pianists Ina Dykstra and Nancy Watt will present a program for one piano, four hands, which will include pieces from Legends by Dvorák. Tickets (available only at the door): \$20 adults; \$10 students/seniors; \$5 (under 18). 3–4:30 p.m. Augustana Chapel, Camrose.



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Men's hockey at the University of Alberta, which began play 100 years ago, is widely considered the most successful program in Canadian Interuniversity Sport history. The Golden Bears have won a record 13 national championships, as well as 49 out of 76 conference championships, and have played in a record 35 national championship tournaments, including a streak of 10 straight from 1997 to 2006.



Legendary Golden Bears coach Clare Drake opens the 2012-13 season at the rink named in his honour.

